



COLORADO SPRINGS,
COLORADO

JUNE 1990

PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.

P.O. Box 16521

Colorado Springs, CO 80935

FIRST CLASS MAIL



Ø BEAT



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* denotes the first year of a two-year term.

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., P.O. Box 16521, Colorado Springs, Colorado 80935. Cost is 50¢ per month for non-members or a \$6.00 per year subscription. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at 7:00 p.m. All amateurs and interested parties are invited to attend.

EDITOR: Ron Deutsch NK0P 4305 Ridgeline Drive Colorado Springs, Co. 80918 (719) 593-8352 or 145.01 (Packet)

MESSAGE FROM THE PRESIDENT

I think this has been the busiest month in recent history for me. Between retirement from the Air Force, finding a job and finishing up my graduate degree at UCCS, I don't know how I found time to take care of the swapfest. The simple truth of the matter is that without the help of many people, things wouldn't have gone as smooth as they did. Table unloading, set up, ticket sales, tear down and clean up all went like clockwork. And what a swapfest it was. The room which held ICOM, ETO, CW Electronics and the badge man was my favorite place and the main mall area with swapfest "stuff" was interesting as well. If you couldn't make it there is always next year.

Speaking of next year, we are in the market for a new swapfest chairman. Experience is not necessary, you can learn on the job. The only thing for certain is that it will be someone new next year. I haven't seen the final balance sheet yet but I am quite sure we managed to make some money which can be used towards club projects in the coming year. Again, thanks to all who helped make it a success. For those who haven't heard, Alice Hatheway in Pueblo won the grand prize at the swapfest. Let's hope it is working out real well for her. The guys from ICOM were quite impressed with our swapfest and expressed interest in coming back next year.

As usual I am writing this column on the night before Ron needs it to finish up the newsletter. This month it is also the night before the spring (and only) Teller county auto hill climb. For those of you who have never been to this event, I can only say try it. Of all the events we have participated in over the last four years, I think this one is the most exciting of them all. With multiple time trial heats on Saturday and the

actual races on Sunday there is plenty of activity to keep you busy. And on Saturday night (if we are lucky) Mike, K0TER, will have his guitar out and after dinner and some liquid refreshment we can get down to the serious business of telling "stories", talking on the radio and singing a few songs in Doc's motor home. It has to be one of the best all time examples of public service and good clean fun all wrapped up in one package.

With so many public service activities coming up in the near future, we will be needing alot of help. Contact Mike, K0TER, to volunteer. If you don't feel like public service right now, rumor has it that 2 meters has been very active lately. Several people in town have heard strange accents and words like "ya'll" on 2 meters in the past few days as they added Tennessee, Kentucky and the Carolinas to their list of contacts on the VHF bands. By next month I hope to have a new set of elements for those of you interested in the new satellites. Except for MIR, which has a tendency to move around alot, the element sets for the AMSAT birds shouldn't change that much from month to month.

And finally, I don't want to finish up without mentioning field day. Once again it will be at picnic area number 3 at the U.S. Air Force Academy. The location is really nice with covered areas for eating and cooking, new restrooms and plenty of space for campers and tents. Whether you come out to say hi or work a few hundred contacts, we orward to seeing you.

That's about all I can think of for this month so I'll clear out and leave some space for an extra want ad or something.

73's WB7THT

CONGRATULATIONS!!!

THE FOLLOWING HAVE RECENTLY
PASSED THEIR NOVICE CLASS EXAMS:

Lorin Lee
Ivan Hickman
Steve Bates
Chris Bates

LISTENING POST

Local area seniors are interested in setting up a Ham Radio Listening Post to help prospective Hams in determining if the hobby suits their needs. This would avoid the expense of purchasing a radio only to find out it was not for you.

If you are interested in helping to set up a listening station please contact:

Gerry Johnston, N0CWZ
2008 N. Chelton Rd.
Colorado Springs, CO. 80909

SWAPFEST RESULTS

Preliminary results show our swapfest was very well received. I even heard some talk of ICOM returning next year. We had 130 swap tables with 129 spoken for. We sold 1,414 tickets for the grand prize.

I talked to several out of town attendees and their reaction was extremely favorable. It is not too early to think about how next years can be even better!!

Complete details will be available at the June club meeting.

73's NK0P

JUNE IN WITH BANG

Well, V.H.F. came in with a bang on June 1st, UTC. Two meter sideband gave local VHFers a ball for an hour from 0130 UTC to 0230 UTC. Four states on the east coast and two in midwest; Kentucky, Tennessee, South Carolina, North Carolina, Kansas, and Missouri.

AL N0CMW, DOC W0MCT, RON NK0P were on the end of a pile up. At times so many stations were calling we could not understand any of them. It was a very interesting evening. It was a typical opening on two meters, one minute 20 over, next minute S-1.

They worked in tandem, passing the stations between them so to give the the ones on other end a good chance to work DM78. A total of 11 new grids were worked, and a total of 24 stations.

RON, NK0P had a definite contact with the Kansas and Missouri stations. AL was not so sure as he took a dive just as Missouri was confirming it.

Paul, W0RW had fun on FM, he worked a Tennessee station on 146.52 FM.

MAY went out with a bang also for 6mtr hams. The last 3 days six was jumping all over the states, short and long.

So it pays to have 6 and 2 turned on when in shack. Just hope it opens up for VHF contest and for field day, see u all on the band.

AL N0CMW

FROM THE BEXAR WIRE

(San Antonio Radio Club)

DEFINITIONS:

WETHEB'S LAW: Assumption is the mother of all screw-ups.

PRISSY'S RULE: If you don't know what you are doing, do it neatly.

TELECO'S 2ND LAW: There are two kinds of tape, one that won't stay on, and the other one that won't come off.

BEACHES LAW: No two identical parts are alike.

RULES OF INTELLIGENT TINKERING:

..A \$20 Power transistor will protect a fifty cent fuse by blowing first.

..Sooner or later, you will ground the B+. You won't notice it until you power up and touch the chassis.

QST on Microfilm

by W4AAB

Have you ever noticed the ads in QST by Buckmaster Publishing for a complete microfilm set of QST dating from December 1915? I have been watching that ad for several years, and always had a hankering to place an order. It currently sells for \$425 and yearly updates are available for \$10.

Buckmaster also sell a battery operated hand held viewer for \$75 or a desk model for \$220. The hand held version sounded like a real tiresome method and the desk model seemed too expensive.

Since first reading that ad, I have been keeping my eyes open for a good used microfiche reader. A couple of weeks ago, I came across one in mint condition at a small college bookstore. They had just switched to a computer system for catalogue and ordering information. The asking price \$35, and it included two spare bulbs. So - needless to say, the microfiche reader now occupies a prime position in my shack.

A little plastic card and one phone call later and an order to Buckmaster was completed. I was surprised when the microfilm set arrived in two days by US Postal Priority mail. Although, \$425 seems like a lot of plastic, if broken down by years (64), it is only a little over \$7 per year.

The quality of the microfiche is good to excellent for the written word. It is recorded on the microfilm as a negative image and photographs come out as negatives. That is a bit of a disappointment and does detract somewhat from the reading pleasure. It is not as convenient as thumbing through a magazine, but my shack is not big enough to store a 64 year collection even if you could find a complete set. Buckmaster has a satisfaction guarantee or your money back, but I have no plans to return my set. QZ, Hamradio, 73 magazine, and the American radio amateur callbook are also available on microfilm from Buckmaster.

In the past few days I have skimmed through the issues of QST December 1915 to December 1923. It was fun seeing how the ARRL and QST rapidly evolved in those early years. QST format has not really changed much since those early days and still serves us well. Those pioneering hams had many of the same problems we face today including changing regulations and loss of frequencies. We have TVI-VCR interference. They were plagued with broadcast interference with the broadcast industry in its infancy. And the problem, then as now, was due primarily to consumer electronics inadequately engineered to reject out of band signals. It was amazing how rapidly radio progressed in those eight years.

Although their equipment was primitive by today's standards, they were on the cutting edge of technology. I wonder if we can say the same today? I now feel closer to those long silent keys and have a better appreciation for the part that the ARRL played in amateur radio development and preservation. It is recommended reading for all hams.

I enjoy reading about ham radio almost as much as any other aspect of the hobby. The next 54 years of QST microfilm is sure to provide a lot of entertainment. The Buckmaster QST microfilm set is not a must buy item for every ham. There are undoubtedly a few other nuts out there, who like myself would find it worth having in their library. The set would also make a fine addition to any radio club or public library. Any questions?

73

Jim Sorrells
W4AAB

QRP ARCI FALL/WINTER NET SCHEDULE

This is the 1989/90 Fall/Winter net schedule of QRP Amateur Radio Club International, an organization of QRP operators. The schedule is taken from the January, 1990 issue of QRP Quarterly, the organization's journal.

NET FREQUENCY NCS DAY UTC

TCN* 14060 W5LXS Sunday 2300 ANCS-NM7M SEB**
7030 K3TKS + Wednesday 0001 ANCS-KH6CP/1 GSN
3560 W5LXS + Thursday 0200 ANCS-W5XE GLN 3560
KH6CP/1 + Thursday 0200 NEN 7040 WA1JXR Saturday
1300 ANCS-W1FMR/K3TKS WSN 7040 W6RCP
Saturday 1600 ANCS-W6JQ/W6STY/NJ7M/KV7X/
NM7M

* On weekends of major contests, TCN will meet one hour later.

** If conditions on 7030 kHz are poor, QSY to 3535 kHz at 0030Z.

+ Evening of the day before for W/VE.

OTHER QRP NETS

MI-QRP 3535 K8JRO + Wednesday 0100 VE-QRP 14060
VE6BLY Sunday 1900 NWQRP 7040 N7MFB + Tuesday
0400

+ Evening of the day before for W/VE.

1934 Official

SHORT WAVE RADIO MANUAL

edited by Hugo Gernsback

Build simple, high performance old time shortwave radios!! You can—all of the secrets are here: the circuit diagrams, parts layout, coil specifications, construction details, operation hints and much more. A classic for experimenters, shortwave listeners, ham radio operators, old time radio collectors and just about anyone interested in old-time radios. Even if you never get to build one of these radios, you're sure to get hours of enjoyable reading out of this book. 8 1/2 x 11 Paperback, 260 pages. ISBN 0-917914-64-3



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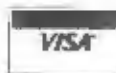
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"THE VIEW FROM THE PEAK"

by George Hinds, N8CEK

"ON DUTY" WITH A COLORADO STATE PATROL TROOPER.

A member of the Mountain ARC here in Teller County was allowed to ride along with a trooper recently. Special permission was required; earlier assistance to the Patrol in radio matters proved helpful in obtaining the O.K.

What's it like to ride with a state trooper? Interesting and educational, certainly. To the ham radio rider, there were no dull moments in what was evidently a routine tour of duty for the trooper.

The primary responsibility of the Colorado State Patrol is road patrol and traffic law enforcement. One obvious lesson quickly learned when we swung into action: it's less than smart to rely on a radar detector to always save one from speeding tickets -- that's a risky undertaking! It's much wiser (and less of a drain on the wallet) to stay within the speed limit! Troopers may be checking speed with "Vascar", "instant-on" radar and sometimes are aided by aircraft.

Did you know that 50% of speeding tickets issued are to drivers relying on so-called "radar detectors" to escape detection? So, when you see an advertising sign along the road extolling the merits of buying some brand of "fail-safe" radar detector, think of it not as a billboard, but a bullboard.

Most impressive to the ham rider: over and over the trooper demonstrated uncanny accuracy in calling out his estimated speed of cars and trucks rolling along the highway, then snapping on the radar to verify his estimate -- time after time guessing right on the dot or to within a mile or two the speed of the approaching vehicle, even when the patrol car was in motion.

This fellow had been a state trooper for 23 years; all in the Pike's Peak region. He knows every nook and cranny in his territory. Troopers take their job seriously; it was evident they don't write tickets unless the violation(s) warrants. Quickly it was obvious that reckless driving in our Colorado mountains won't be excused. In fact, one of our "traffic stops" during this tour of duty was a neighbor of the trooper. It may have been painful to both, but that speeding violation in the 43 m.p.h. Ute Pass canyon, with grades in excess of 7% and sharp curves, resulted in a citation. It's unquestionably a dangerous place for excessive speed.

"It's tough to cite people who are obviously decent citizens, but I've seen too often what happens in accidents when otherwise good people forget or ignore good judgement and common sense in driving," the trooper commented. "A citation today may

be the lesson they need that will prevent my having to complete an injury or fatality accident report on them tomorrow." During the hours on patrol, several traffic stops were made and citations issued. Is a warning instead of a citation possible? Yes, in some cases with extenuating circumstances: the driver of a car with a burned-out light was warned and directed to have it replaced at the next service station.

At all times the patrolman was easy-going in manner, but very professional and firm in his contact with those pulled over. "I try to treat people with respect as I expect to be treated by them; some few times a person won't let you do that and then I deal with it as best I can". After 23 years, you can bet he's heard all the excuses in the book!

Much time can be consumed by troopers when an ordinary traffic stop becomes something more serious. Distance, time and necessary procedures can chew up an evening on duty; not every minute is spent on actual patrol. This was demonstrated by one of the many traffic stops made that evening. A motorist was pulled over for speeding. Talking to and observing the driver, it seemed this stop could be a possible case of driving under the influence.

To make this determination, it was necessary that he be taken for a test at the Woodland Park police station. Once there, he passed the test and so was not booked for driving while under the influence. However, it turned out there were several other active offenses outstanding on his record. Then it was off to jail at the county seat about 25 miles distant at Cripple Creek where he was booked and placed under confinement. Almost three hours were spent in this procedure.

Then back on patrol again. In fact, no break was taken in the time on duty for a "coffee stop". Luckily, too, this night there were no reports to take of cars striking elk or deer (or horses or cattle on the road) as sometimes happens in this area.

The shift ended and the ham rider was dropped off. Because of the shortage of personnel, our trooper was at home but on call for another four hours in case of emergency. There is no such luxury as a two-man car, day or night, despite the wild and lonely territory covered where help is often far away should a trooper get in trouble. Neither is he (or she) equipped with a walkie-talkie and an in-car mobile repeater to rely on when stepping away from the patrol car at a traffic stop. The ever-present danger results in tense moments for troopers.

One happy result: it brings about close cooperation between state patrol troopers and other law enforcement people. With more and more multi-channel scanning radios showing up today in most police cars this inter-dependence is made easier. It's a very hazardous job at times when just one trooper

may be available to cover parts of three mountain counties as does the trooper in this story; over 8,000 square miles of potential trouble.

Wildlife officers, rangers and county sheriffs work in cooperation with state troopers, using the VHF hi-band state-wide frequency to communicate between cars. Illegal cutting of timber and night poaching of deer, bear and elk is a problem in Colorado, so mutual aid is essential, especially when patrolmen from any of these agencies is on a run involving armed poachers deep in the forest on roads far from towns. Because amateur radio and public service are intertwined, it's no surprise that many amateurs listen to the patrol frequencies just in case a situation arises where they may be able to help out in some way.

73, *George Hinds, N8CIX*

EASY LISTENING ON VHF/UHF

Bob Witte, KB0CY

Many of the new VHF and UHF transceivers and HTs have extended coverage receive capability which allows you to listen outside the ham bands. Typically, an extended coverage two meter rig receives up to about 174 MHz, which covers public service frequencies (police, fire, etc.) and the weather band. Dual band (2 meter & 440 Mhz) transceivers cover even more frequencies.

I recently purchased a Kenwood TM-231A 2 meter rig with extended coverage, which simultaneously serves the functions of 2-meter transceiver and police scanner. (It turns out that up here in Monument most of the public service frequencies are on VHF) Especially when the winter storms blow through, it is useful (and interesting) to monitor the authorities as they attempt to keep the highways open.

Here are a few frequencies to get you started with your scanner or extended coverage VHF/UHF transceiver:

154.325	El Paso County Fire
154.250	Tri-Lakes Fire
154.355	Woodmoor/Monument Fire
153.860	Black Forest Fire
453.550	Spring Police (North Side)
453.750	Spring Police (East Side)
453.850	Spring Police (West Side)
155.610	El Paso County Sheriff
155.210	State Patrol (Spring Area)
162.475	NOAA Weather

DITS AND BITS

FOR SALE:

ICOM u4AT w/extra BP-23 and charger. Excellent condition. \$175

ICOM 2AT w/extra BP-8 and charger. Good condition. \$125

ICOM HM-46 Speaker Mic. \$25

ICOM DC-1 12V auto adapter. \$15

All 3 above for \$155

MFJ-280 Speaker \$10

Mirage 30-Watt Amp (2mtr) w/extra cable and adapter. \$40

Larson NLA Antenna (2mtr) Mag. Mount \$25.

Contact Greg Peerman N0JKL 634-7784

FOR SALE:

Heath Antenna Dummy load, \$12

Santec SM-3 Speaker Mic. \$20

Used 4CX250B+ \$10 ea.

Heath HP-13 DC Power Supply \$10

HAL ST-6 RTTY interface \$10

6 FT x 19 inch rack cabinet very good shape
FREE

WANTED: CW filter for FT-726R

Contact: Ron, NK0P 593-8352

FOR SALE OR TRADE:

ICOM R71A \$550.00

YEASU FT901DM \$425.00

UNIDEN HR 2600 \$200.00

ROHN 25G \$3 per foot

Contact: Larry Clark, KD0ZR 748-3728

PPRAA JUNE CLUB MEETING

JUNE 13, 1990 7PM

ELKS CLUB

3400 NORTH NEVADA AVE.

SPURIOUS EMISSIONS

from Bob Witte, KB0CY

The equipment manufacturers have finally started to implement a feature that has been on my wish list for a long time -- the implementation of a DTMF selective call system. How many times have you wanted to monitor a repeater or simplex frequency but got worn down by the idle chitchat? A selective call system would mute the receiver audio until someone was specifically calling you. Kenwood implemented such a system with its DCS (Digital Coded Squelch), but that system (oddly enough) required you to have a late model Kenwood transceiver. Systems such as CTCSS (sub-audible tones) can be used to some extent, but these are not necessarily retransmitted by your local repeater. The obvious (?) answer is to use DTMF tones since almost everyone already has the snooder on their radio. Both Icom and Kenwood have recently introduced VHF/UHF radios which have some form of DTMF activated squelch.

Here is unsolicited product idea: an attractively packaged 2 Meter FM base transceiver. There are currently only two types of VHF/UHF transceivers available. One is the FM only or all mode mobile radio and the other is the all mode base transceiver (usually optimized for satellite use). So what do all of the amateurs do for a radio in the old ham shack? Most operate FM only, so they buy an FM mobile radio and add a 12 volt power supply. The thing sits there with its speaker pointed downward and its microphone dangling down the side of the desk. What they really need is an FM transceiver packaged appropriately for home use. This means that the 12 volt power supply is built in, the speaker faces the front of the radio and the microphone has a handy resting spot on the side of the radio. But, you say, a mobile radio can also be used in the family car. That may be true, but many amateurs end up with a 2 Meter rig in every car, a handheld radio in each pocket and a radio in every room of the house. (Well, not really, but you get the point.) By the way, if the radio was packaged correctly, you might even be able to talk the spouse into leaving it in a handy place like the kitchen or family room, instead of squirreling it away in the basement.

What if there was a radio contest where the winning station didn't run a kilowatt with monoband antennas on all bands? How about having a contest where the station capability (in terms of power and antenna) is kept constant and the key factor is the operator's skill? This is similar to certain classes of automobile races where everyone has similar equipment. Or like a sailboat race where everyone sails the same model boat or at least conforms to the same boat length/sail area equation. Maybe then we could

find out who the real first-rate contesters are, independent of equipment. Nah, it will never happen. Well, how about special DXCC endorsements for hams that use less than 100 watts and a non-rotatable antenna?

The hard-core experimenters get short changed in the award category. You know the type: the ones that spend their entire weekend in the basement making some obscure circuit work. Finally, they put the latest contraption on the air for about 2 minutes, verify that it works and start on the next project. Most of them have more operating time on their dummy loads than their antennas.

That's it -- we need a Worked All Dummy Loads award.

(Please direct any comments to KB0CY at 488-0859 or on packet KB0CY@WOLKD).

YOUR OPINION HERE??

Do you have an opinion about a ham radio related issue? Others may share your views or offer a new way to look at it. Don't keep it to yourself write it down and send it to O-Beat. Mail to:

O-Beat Editor
% Ron Deutch, NK0P
4305 Ridgeline Drive
Colorado Springs, CO. 80918

El Paso County Tower Ordinance

After over a year of waiting to hear from the County Planning Department regarding the proposed new tower ordinances that were due to go to the County Commissioners last spring, we now have found out that the Planning and Land Use Department people are quietly trying to send the proposal back through the County Planning Commission again.

According to Ken Rowburg on the Land Planning staff, the reason they are sending the document back through the Planning Commission is to address the "one-half mile limitation." The intent of this issue is to ensure that, according to the document passed by the Planning Commission, compliance would be verified that there would be no towers over 60 feet within one-half mile of each other without the issuance of a special variance. They want to impose a \$25-\$35 fee that would enable a staff member from the Land Use Department to physically check to see if there were any other towers within one-half mile of the proposed tower.

The one-half mile limitation clause was inserted by an Assistant County Attorney to "ensure that homeowners' aesthetic rights would be preserved." What this means is that if you were to put up a tower of 60 feet, which under the new statutes would be legal to do, then another ham who lived within one-half mile of you would not be able to put up any tower over 30 feet without a special variance granted from the Planning Commission.

As an amateur committee, we were opposed to this clause; and since the Land Planning Department is seeking to bring it up again before the Planning Commission and impose a charge for verification of compliance, we feel that this is carrying the limitation to unrealistic limits.

This issue will be heard before the El Paso County Planning Commission on July 17th. We will be getting word to you on the 97 repeater, through a mailing and through other means, to ask you to be in attendance on the day that the issue is heard. It is absolutely essential that we be able to gather a group of 80-90 people once again to stand up for amateur tower rights in El Paso County. We need your support!

What You Can Do Now!

Call Ken Robeag at the Land Planning Department of El Paso County at 520-6300 and let him know of your interest in the issue. If we can get enough telephone calls between now and the June meeting, we can effectively let the Land Planning staff know that this is a very volatile, political issue - an issue in which we, as amateurs, are vitally interested. Call today!

If you have questions, don't hesitate to call Lauren (KX00) at 593-9861 or Hal (W0MXV) at 471-0238. Stand up now and let your rights be counted for!

GENERAL MEETING

PPRAA-MAY 9, 1990

Meeting was called to order by President Rick, WB7THT at 1900 by each one present introducing themselves.

Minutes were approved as printed in OBEAT.
TREASURER REPORT:

Previous: \$1932.91
Income: \$473.58
Expense: \$458.88
Balance: \$1947.61 end of April.

COMMITTEE REPORTS:

RPI JEFF N0JLH 591-6438 NIL
EDUCATION BUD N0DDP 475-0573 NOVICE

CLASS GOING FINE

D&B SCHOOL BUD N0AA 689-2963 Two are getting close.

PUBLIC SERVICE MIKE K0YER KM-1260
ARES needs a daytime contact for communicating with the Weather Bureau.

Southern Colorado traffic net needs a new manager.

March of Dimes walk May 20.

July 7&8 Multiple Sclerosis Bikeathon Denver to Canon City.

July 27, 28, 29 Colorado State Games

Pikes Peak Hill Climb July 29, contact Mike W7MHL, 488-2440.

Volksmarch Fox Run Park May 26 contact George WB0DUM.

June 2&3 Teller Hill climb contact Mike W7MHL

CCARC OAK K0ROL 570-7782 next meeting in Denver.

V.E. TESTING MAX ED0EL 488-9289 next testing June 9 at Chapman College Flintridge and Academy. Need V.E.'S. Pre-Registration required.

OBEAT RON NK0P 593-8352 thanks to all who helped put out special edition.

SWAFFEST RICK WB7THT ICOM has sent in 22 boxes, need help setting up Friday at 1700, May 18 and cleaning up 1700 May 19th.

FIELD DAY MAX ED0EL 488-9289 June 23&24 at picnic area 3 Air Force Academy. Need a manager for the Novice Station, and satellite station. Need some tower sections. Lucie volunteered to be in charge of refreshments. Need help in all categories.

OLD BUSINESS: NONE

NEW BUSINESS:

HAL W0MXY EL PASO COUNTY TOWER ORDINANCE: Is going back to Planning Commission, keep your ears and eyes tuned for date.

BILL WR0Y announced there will be a T-hunt at 1200 during swapfest.

JERRY JOHNSON N0CWZ Would like to see at least a SWL station set up at senior center. Need help on convincing supervisors of need of it.

Would like to see topical entries in OBEAT about problems and fixes to radio problems you have experienced. O-BEAT editor will publish them.

Brief intermission followed.

Raffle winners:

W7TJO TOM FCC RULE BOOK.

N0LA PETE PRINTER STAND.

K0NCL ESTIE WRAPS.

K0Y0Y DAVE GRAB BAG.

K0JEA CARL COAX SEAL.

The program was on the E-911 system which will be installed in El Paso and Teller Counties soon. A very interesting talk by Police Capt. Ownbey.

Meeting adjourned at 2100.

BOARD MEETING

May 14th at the QTH of FLOYD KB5FCN.

FAYLINE KB5FSN.

DAVEN0ION.

AL N0CMW.

RON NK0P.

RUSS KB0FNM.

ROSIE W0MNL.

And all way from Findlay OH.

JIM WASABI.

SWAFFEST was discussed.

The board voted to authorize up to \$100.00 for refreshments for field day.

We will start printing 300 newsletters. We got 108 newsletters back so please let FCC know if an address change as required.

Russ will take a look at the clubs trailer heater and report back with a recommendation on fixing it.

Next Board Meeting at QTH of Lauren KX0O, June 18th.

MEETING ADJOURNED AT 2000

Submitted by AL N0CMW PPRAA SEC.

UPDATED COLORADO SWAPFESTS

MAY 19, 1990 PIKES PEAK RADIO
AMATEUR ASSOC. HAMFEST RUSTIC HILLS
MALL COLORADO SPRINGS, COLORADO
CONTACT: RON, NK0P 719-593-8352

JUNE 30, 1990 SUPERFEST LARIMER
COUNTY FAIRGROUNDS LOVELAND,
COLORADO CONTACT: KENT, KA0TTH 686-
9594

JULY 7, 1990 SKI COUNTRY SWAPFEST
COLORADO MTN. COLLEGE GLENWOOD
SPRINGS, COLORADO CONTACT: BOB,
K9MWM 945-8722

JULY 15, 1990 DENVER RADIO CLUB
SWAPFEST AND COLORADO STATE CON-
VENTION JEFFERSON COUNTY
FAIRGROUNDS GOLDEN, COLORADO CON-
TACT: KEITH, KB0PSR 680-0862

JULY 1990 (PROBABLY 3RD WEEKEND)
MOUNTAIN ARC SWAPFEST & COOKOUT
RED ROCKS CAMPGROUND WOODLAND
PARK, COLORADO CONTACT: N8CTX 719-
687-2610

SEPT 23, 1990 BARCFEST BOULDER
COUNTY FAIRGROUNDS LONGMONT,
COLORADO CONTACT: DAVE, WB0ZID 530-
1872

NOV 4, 1990 RMRL SWAPFEST JEFFCO
SENIOR CITIZENS CENTER 6845
WADSWORTH ARVADA, COLORADO CON-
TACT: DAN, KB0J 458-5444

SURROUNDING STATES SWAPFESTS

JUNE 9 & 10, 1990 WYOMING HAMFEST
HOLIDAY INN CHEYENNE, WYOMING CON-
TACT: SHY-WYARC OR WILSON, WB7RRZ

AUG 3-5, 1990 WIMU THE VIRGINIAN
MOTEL JACKSON HOLE, WYOMING

AUG 18 & 19, 1990 SOUTH DAKOTA STATE
CONVENTION HOTSPRINGS, S. DAKOTA
ANY ADDITIONS OR CORRECTIONS
SEND TO KA0MQA @ WOLFF.

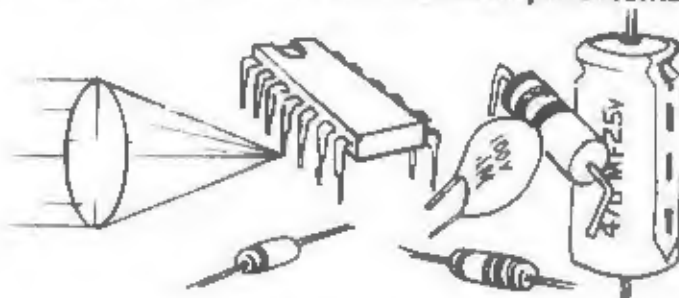
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INC.
—QUALITY—

Optical — Electronic — Mechanical Parts
Buy — Sell — Trade — New & Used Surplus Items

HOURS
M-F 8:30 - 5:30
SAT. 10:00 - 2:00
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WAGADY

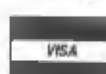
GEORGE
KD0RW

AL
N8CMW

DOUG
W2CRS

800 Lincoln Street
Denver, CO 80203
(303) 832-1111

610 E. Fillmore St.
Colorado Springs, CO 80907
(719) 473-2828



INTERFERENCE

The FCC and EIA (Electronics Industries Association) have collaborated on an interference booklet entitled: "Consumers should know ...SOMETHING ABOUT INTERFERENCE." Purpose is to assist consumers in identifying and resolving communications problems of interference to home electronic products such as televisions, radios, VCRs, stereo equipment, electronic organs and cordless telephones. It contains a step-by-step approach to understanding and resolving interference which may occur in the home. Copies are available from: Dir, Consumer Affairs, EIA, 2001 Eye St. NW, Washington DC 20006 and: FCC, Public Service Div., 1919 M St. NW Room 725, Washington, DC 20554. WSYI REPORT

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Membership Application PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.

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- Associate Member \$10.00

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Associate Member \$8.00 ☐ (Outside Teller & El Paso Counties.)

PPRAA is not associated with the Pikes Peak FM Association.